[LP 0819] AUGUST 2019 **Sub. Code: 2601**

B.Sc. RESPIRATORY THERAPY

FIRST YEAR

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code: 802601

Time: Three Hours **Maximum: 100 Marks**

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Explain in detail about the different phases of cardiac cycle with a neat diagram.
2. Define cardiac output. Write about the factors influencing cardiac output.
3. Draw a neat diagram of the lung describing (a) external features (b) Hilum of the lung (c) Root of the lung.

II. Write notes on: **(8 x 5 = 40)**

1. Carbondioxide transport.
2. Heart sounds.
3. Long term regulation of Blood pressure.
4. Neural regulation of respiration.
5. External and internal features of Right atrium.
6. Nervous control of heart.
7. Pericardium.
8. Oxygen dissociation curve.

III. Short answers on: **(10 x 3 = 30)**

1. Define vital capacity. Mention its normal value.
2. Respiratory unit.
3. Name the valves of the heart and its location.
4. Normal values of heart rate, respiratory rate and blood pressure.
5. Coronary artery and its dominance.
6. Borders of the heart.
7. Superior vena cava.
8. Name the laryngeal cartilages.
9. Pacemaker of the heart.
10. Pleural effusion.

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